

EO 13514 Greenhouse Gas (GHG) Inventories and Challenges



Bill Van Houten

*Office of the Deputy Under Secretary of Defense
Installations and Environment*

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Bottom Line Up Front (BLUF)

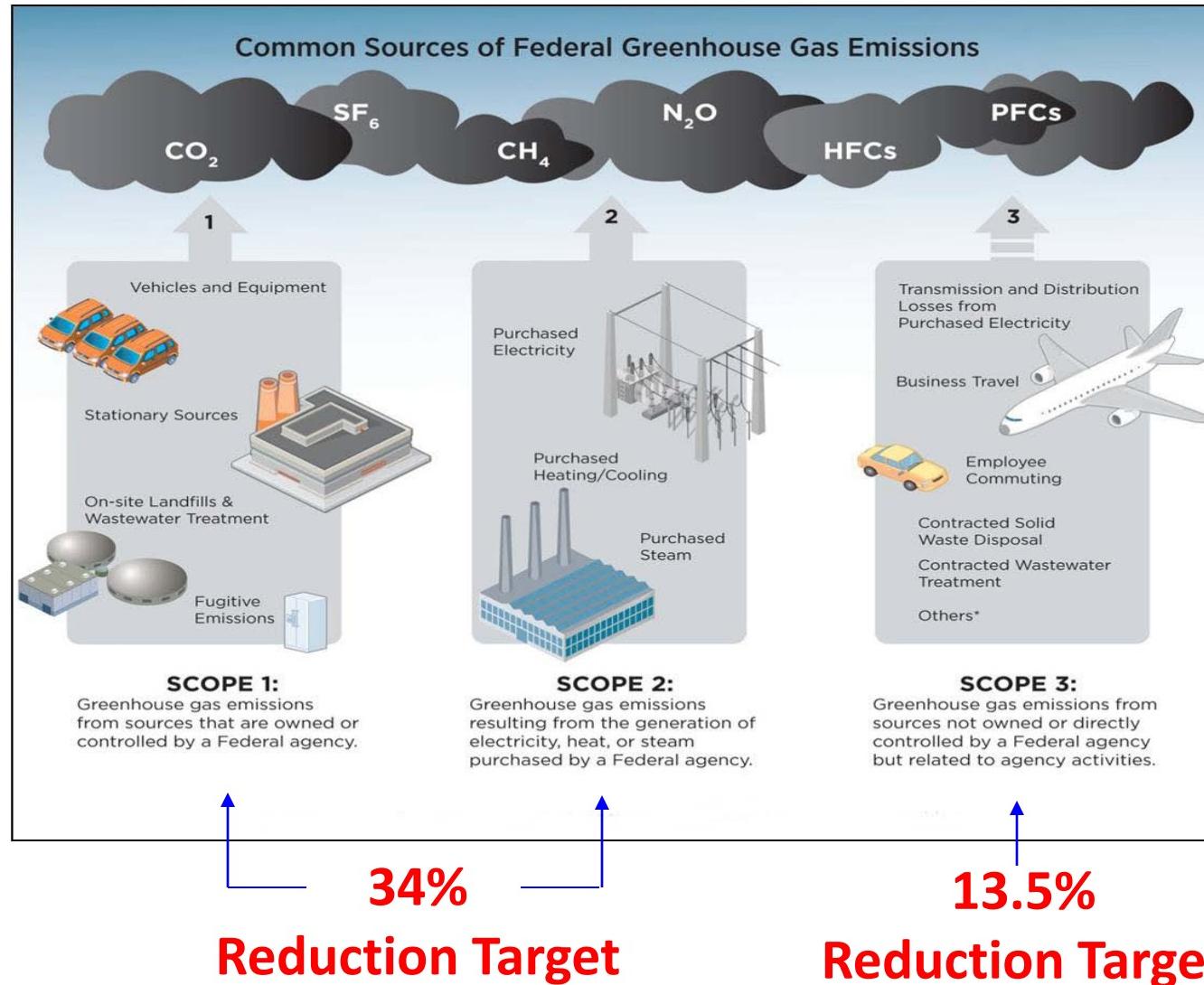
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- The original DoD inventory estimates, used to develop the GHG targets, were within 5% of actual data collected
- Energy drives GHG emissions, requiring improved coordination with other DoD program areas
- Next steps
 - Coordinate strategy to meet reduction targets
 - Develop a strategy for addressing data gaps
 - Develop best practices for DoD data collection
 - Work with Federal GHG Accounting Workgroup to improve accounting for certain GHG sources



EO 13514 GHG Reduction Targets

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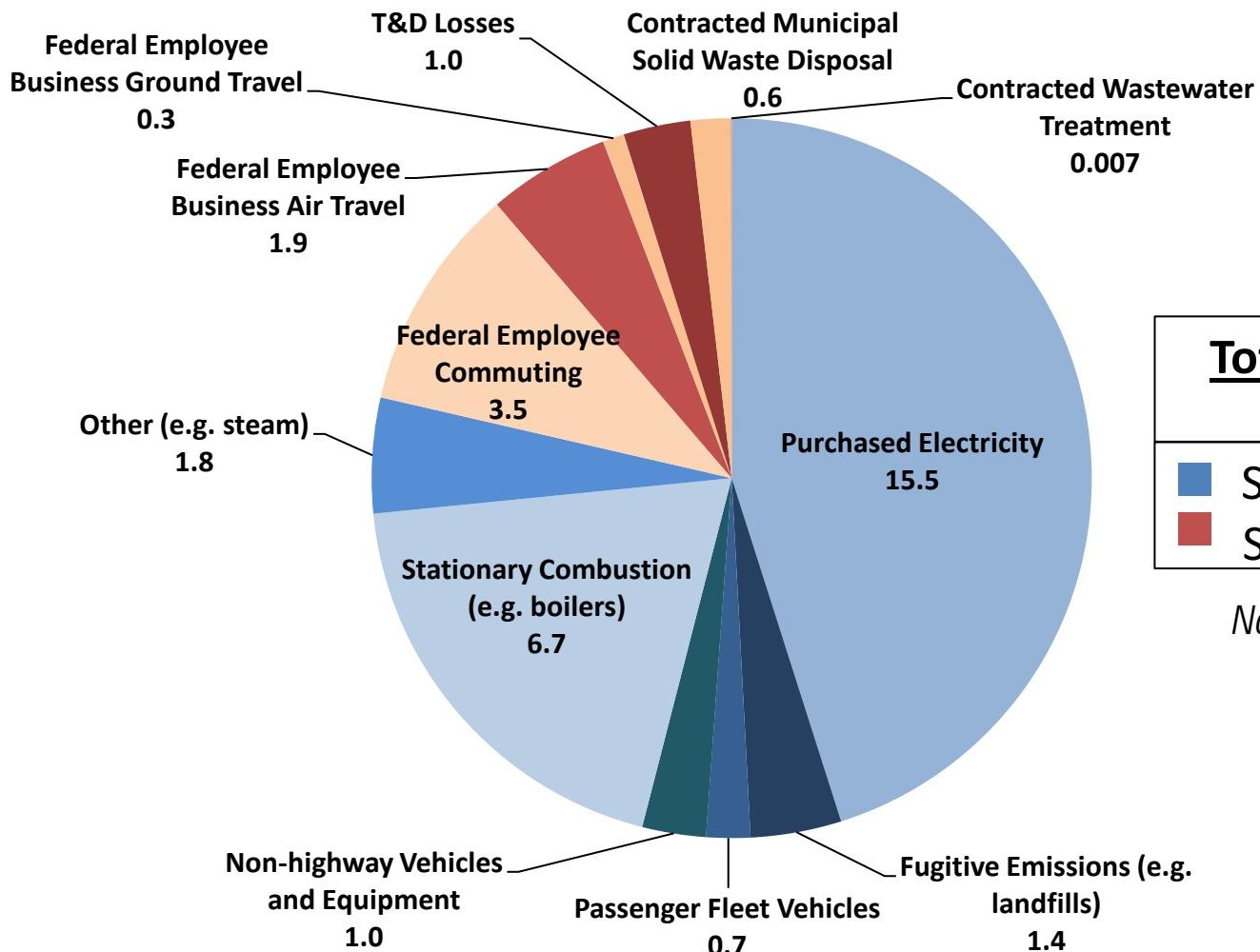


DoD has some of the most aggressive greenhouse gas reduction targets for 2020 in the U.S. Federal Government.



FY 2010 Target Subject DoD GHG Emissions (MMTCO₂e)

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Total MMTCO₂e
34.4

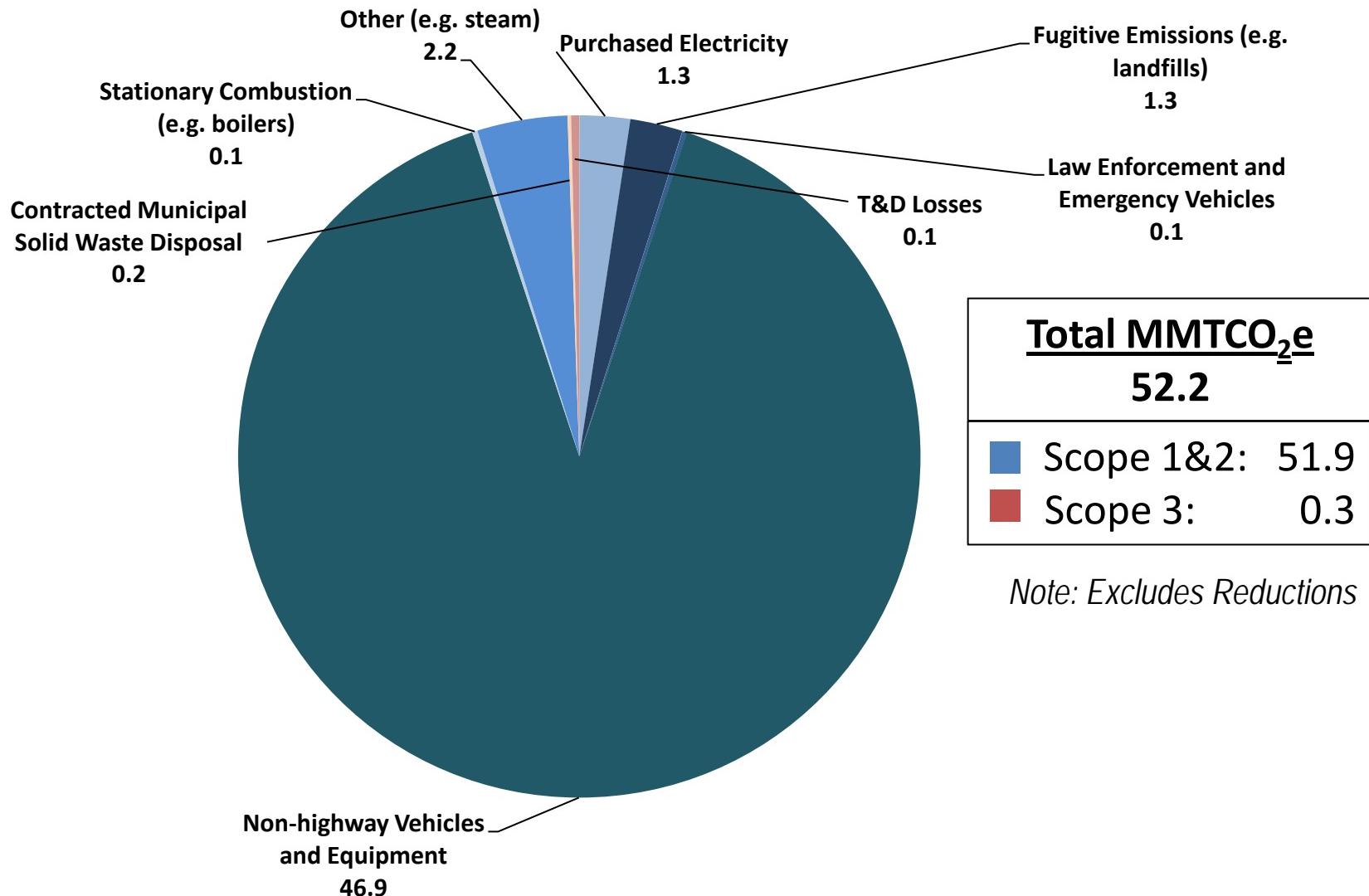
Scope 1&2: 27.0
Scope 3: 7.4

Note: Includes Scope
1&2 Reductions



FY 2010 Target Excluded DoD GHG Emissions (MMTCO₂e)

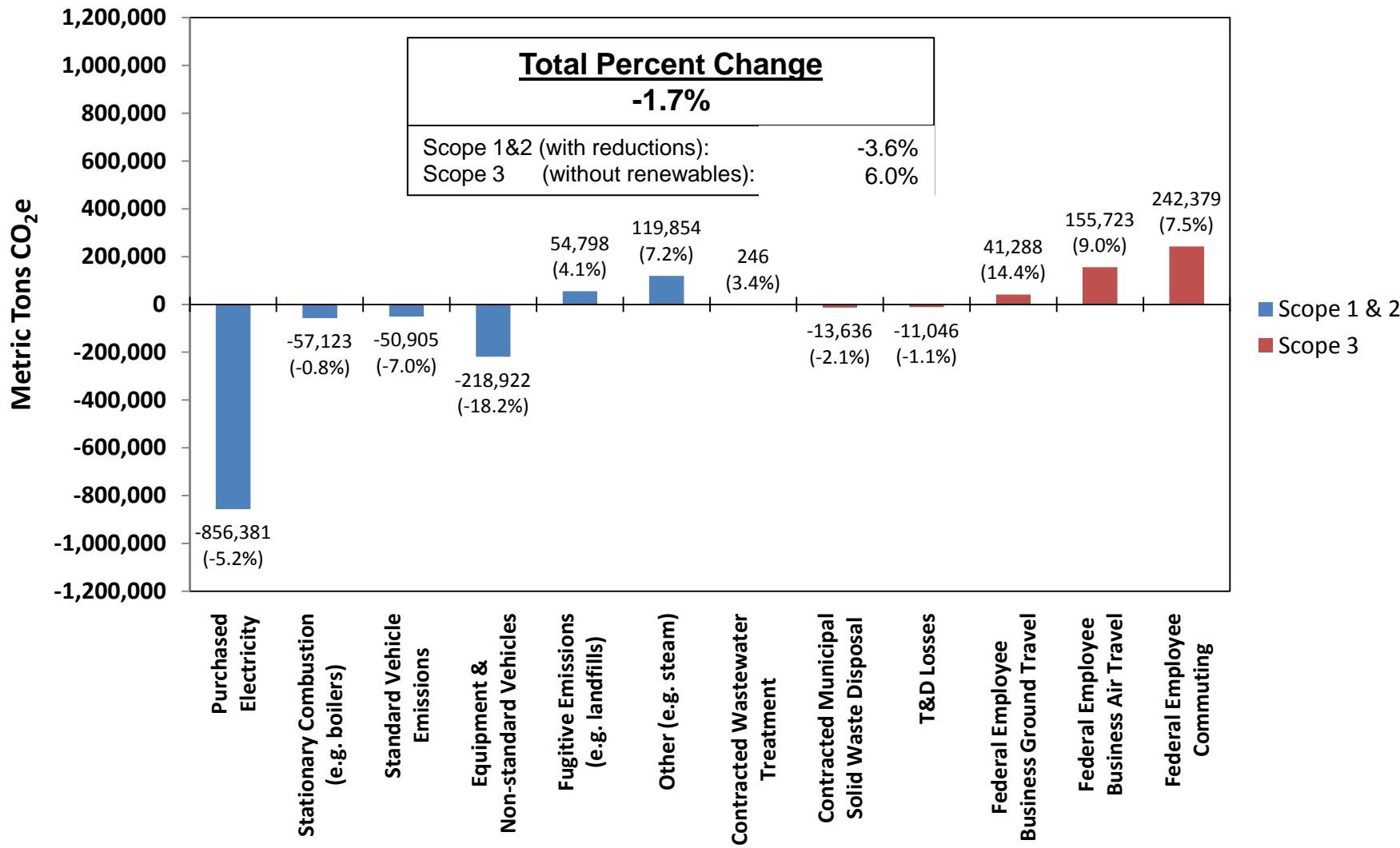
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Change in GHG Target Subject Emissions (FY08 to FY10)

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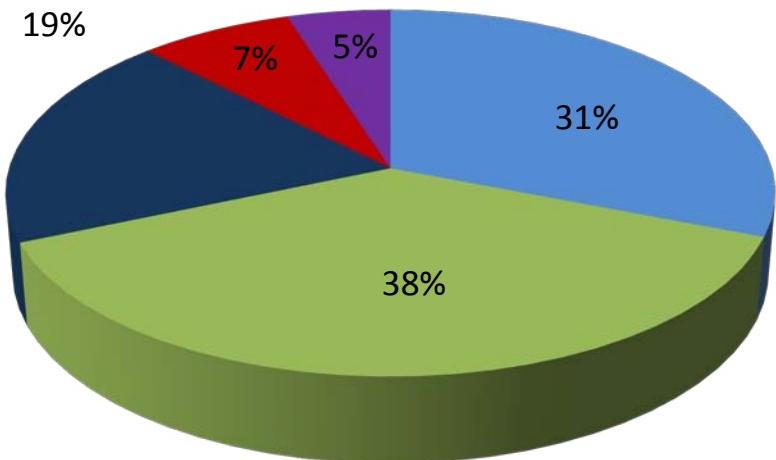




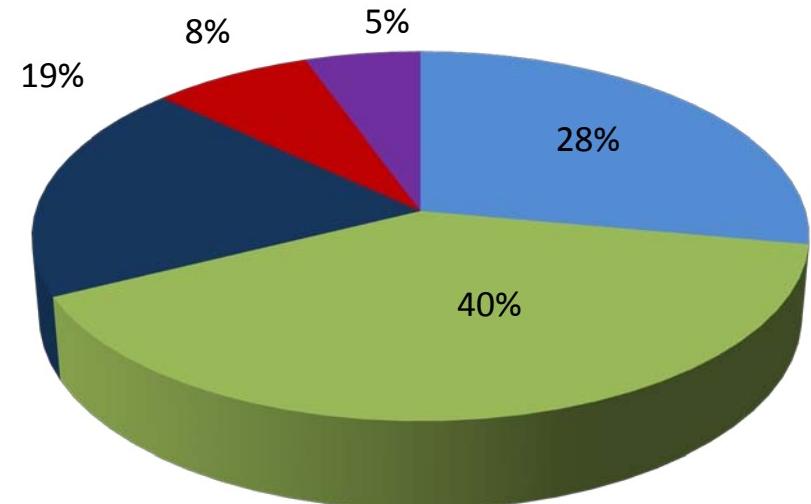
Military Service Level Data: GHG Target Subject Emissions

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FY 2008 Emissions
(MMTCO₂e)



FY 2010 Emissions
(MMTCO₂e)



- Air Force
- Army
- Navy
- Marines
- Other DoD

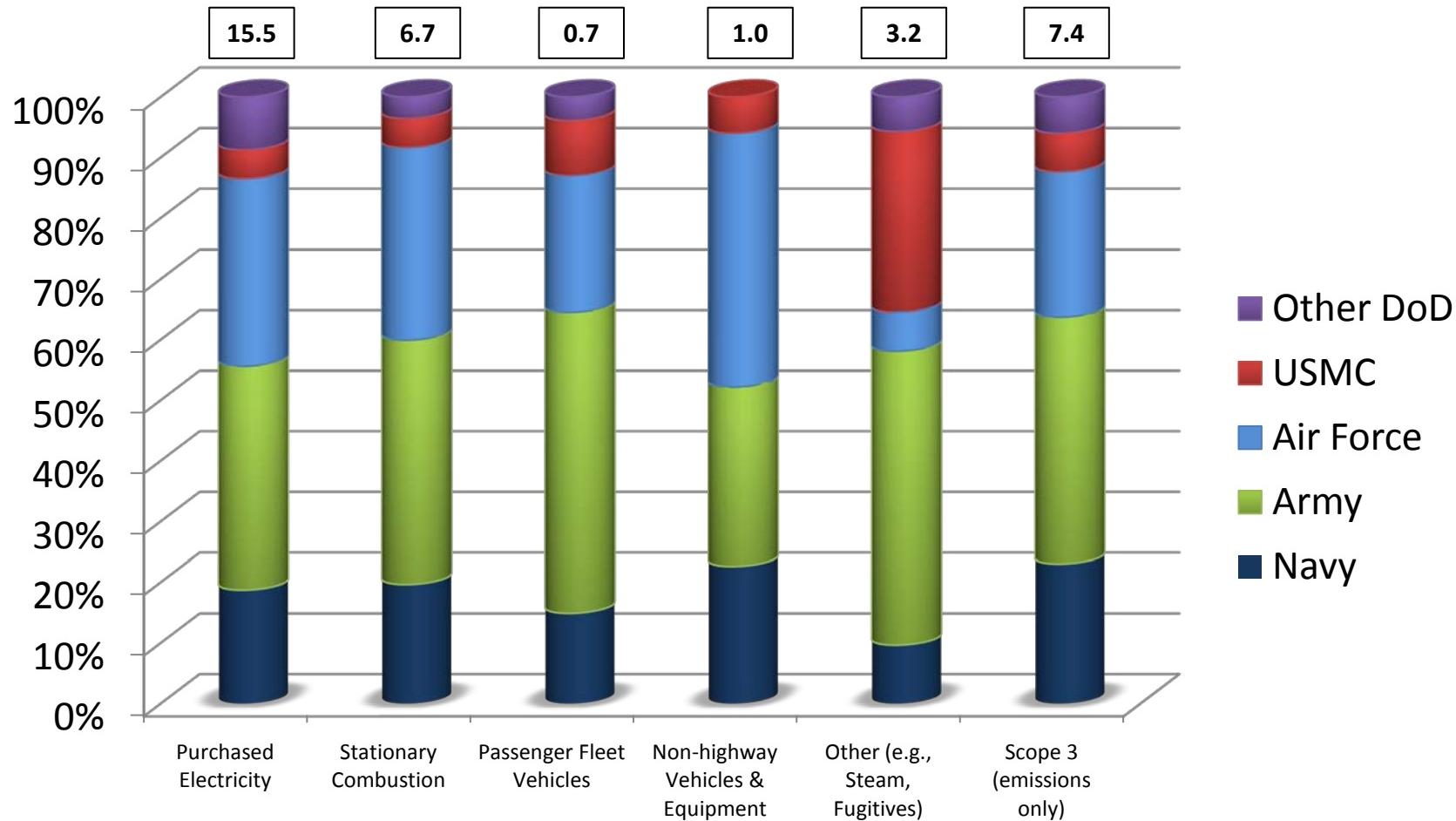
- Air Force
- Army
- Navy
- Marines
- Other DoD



Military Service Level Data by Source

Target Subject Emissions (MMTCO₂e)

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GHG Accounting Challenges

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- Unavailable data
 - Classified employee data (i.e., travel, waste)
 - GOCOs
 - Some renewables metrics
- Proper accounting
 - Tactical and non-tactical sources not separated in energy reporting
- Where necessary, data gaps and assumptions must be identified and explained
 - Consider the cost to collect additional data versus using best available estimates
 - Work toward improving data in future reports





Uncertainty and Data Gaps

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- Uncertainty in emissions estimates remains for some sources
 - Business travel
 - Renewable energy
 - Municipal solid waste/onsite landfills
 - Fluorinated gases
- Data gaps
 - F-gas procurement from GSA, credit cards, and service contractors
 - Solid waste disposal by facilities generating <1 ton/day
 - GOCOs
 - Closed landfills
 - Classified employee data for intelligence agencies





Future Challenges

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- CEQ Guidance may require updates to
 - Third party-owned energy generation on federal lands
 - Employee business travel and commuting
 - Updates to baseline and GHG targets
 - Process for reporting
 - International reporting
 - GHGs from government-leased space
 - Land-use sequestration
 - Vendor and contractor (supply chain emissions)
 - Other scope 3 sources
- Interagency workgroup is providing recommendations on these updates
 - Co-chaired by DoE FEMP, OSD, and EPA
- FY 08 baselines may be adjusted when
 - New sources are added
 - Agency structure changes
 - Better data become available

